

Oleodinamica Marchesini V0331 double-acting plough overturning valve with alignment

Manufacturer: Oleodinamica Marchesini
Manufacturer part number / published order designation: V0331
Published model: V0331

About this compilation

Prepared by Hydmaster from selected manufacturer documentation. Original technical pages follow without cropped drawings, rewritten data or altered units. This cover and index are Hydmaster editorial material, not a manufacturer-issued exact-execution datasheet.

Coverage: selected pages relevant to the identified size and configuration. Other options or neighbouring models retained on an original page apply only where explicitly identified.

Execution notes and conditions

Exact observed complete article, no generated order combinations or delivered preset.

Representative factory family image; exact option-dependent mass and envelope not inferred.

C1 Ø12 is the catalogue connection dimension only; no internal-bore, DIN or thread-interface inference. Actual delivered calibration unconfirmed.

Source-page index

Source page numbers below are physical pages of each complete original PDF. The original printed page labels and technical content remain unchanged. Compiled page numbers count this cover/index.

Source A: Oleodinamica Marchesini V0331 current original technical sheet

Original pages	Compiled pages	Relevant content
1	2	Complete unaltered original family spread; exact applicability and limitations stated on editorial index

VALVOLE DI RIBALTAMENTO ARATRO A DOPPIO EFFETTO
CON ALLINEAMENTO DEL CARICO
DOUBLE ACTING PLOUGH OVERTURNING VALVES WITH
ALIGNMENT



IMPIEGO:

Valvola realizzata per l'impiego su cilindri per aratri reversibili, in modo da ottenere l'inversione automatica del flusso d'olio e quindi del moto del cilindro idraulico atto a portare in rotazione l'aratro. È stata studiata per azionare due cilindri con aratri con la rotazione del telaio verso l'alto (vedi schema). Funzionamento: i 2 cilindri funzionano in parallelo. All' inizio manovra parte il cilindro B che richiede meno pressione e allinea il carico. Prima che finisca la manovra, parte anche il cilindro A di rovesciamento. Superato il punto morto (90°) i 2 cilindri A e B ripartono contemporaneamente riportando l'aratro alla posizione di lavoro.

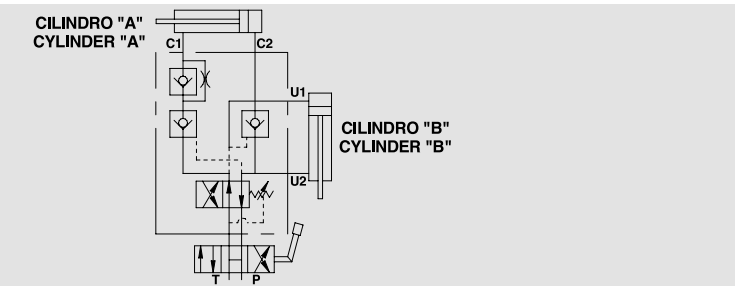
MATERIALI E CARATTERISTICHE:

Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: a cono guidato. Non ammette trafilementi
Le valvole vengono fornite con pressione di scambio di circa 150 Bar: a seconda delle varie esigenze la pressione di scambio può essere variata agendo sul regolatore di pressione.

MONTAGGIO:

Collegare C1 allo stelo e C2 al fondello del cilindro A, U1 al fondello e U2 allo stelo del cilindro B di allineamento e P e T alle prese macchina. Data la particolare configurazione, queste valvole possono essere montate in linea sul cilindro idraulico o fissate direttamente alla struttura dell'aratro tramite il foro filettato ricavato nel corpo.

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



USE AND OPERATION:

This valve has been designed for use on cylinders for reversible ploughs to obtain the automatic oil flow reversal, and therefore the reversal of the hydraulic cylinder which rotates the plough. It has been designed to control two cylinders on ploughs with the rotation of the frame upwards (see scheme). Operation: the two cylinders work in parallel. First cylinder B starts lining up the load (as it requires less pressure). Before the end of stroke, cylinder A starts the overturning. Once the dead head point (90°) has passed, the cylinders A and B restart together taking the plough back to its working position.

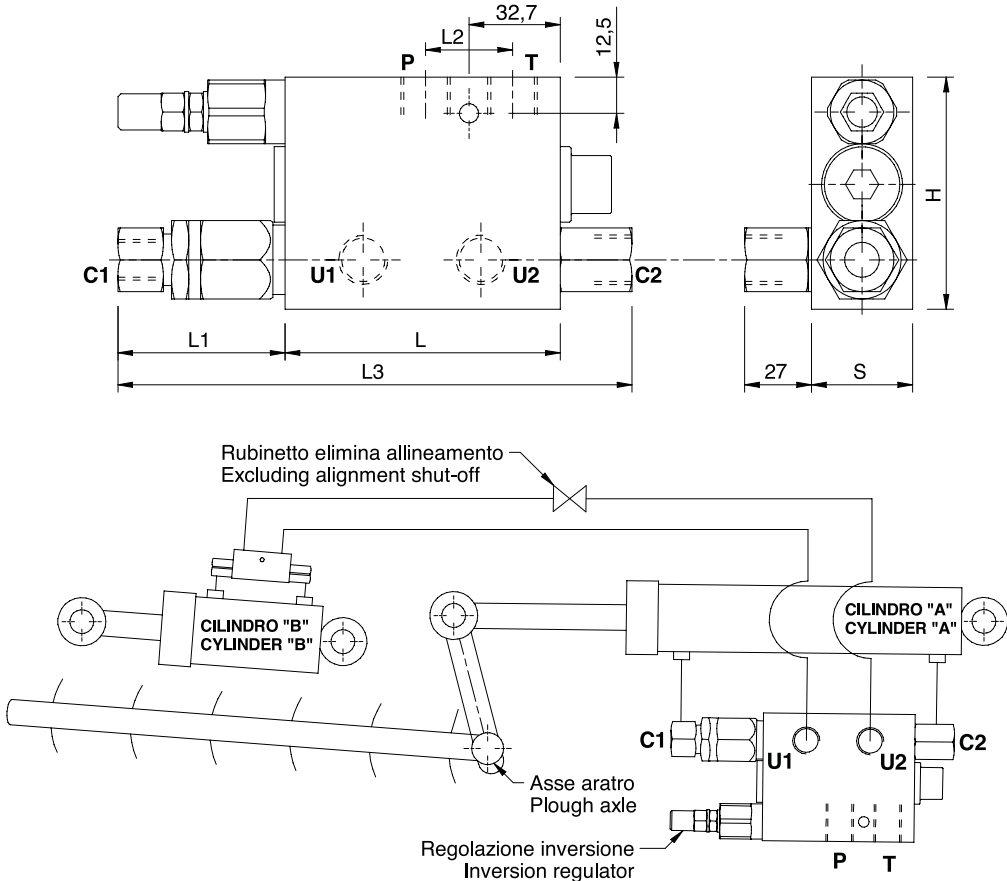
MATERIALS AND FEATURES:

Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Load holding - guided poppet. Negligible leakage.
These valves are supplied with exchange pressure at about 150 Bar: according to your requirements, pressure setting can be modified by adjusting the pressure regulator.

CONNECTIONS:

Connect C1 to the rod side, C2 to the head side of the overturning cylinder A, U1 to the head side and U2 to the rod side of the aligning cylinder B. P and T to the machine's supply. Thanks to its shape, it can be assembled in-line on the hydraulic cylinder or directly fixed onto the plough by the threaded hole in the valve body.

CODICE CODE	SIGLA TYPE	PRESSIONE MASSIMA DI SCAMBIO MAX EXCHANGE PRESSURE Bar	PRESSIONE MAX MAX PRESSURE Bar
V0330	VRAP 80/100 SS	250	400
V0331	VRAP 100/110 SS VMP	250	400



CODICE CODE	SIGLA TYPE	C2 P - T GAS	C1 mm	L mm	L1 mm	L2 mm	L3 mm	H mm	S mm	PESO WEIGHT Kg.
V0330	VRAP 80/100 SS	G 3/8"	Ø12	95	58	30	177,5	80	35	2,230
V0331	VRAP 100/110 SS VMP	G 3/8"	Ø12	95	58	30	176	80	35	3,180